

Algebra II Test 7.1-7.2

1. State all the possible rational roots for $4x^4 + x^3 - x + 3$

2. Find all the rational roots for $3x^4 - 10x^3 - 24x^2 - 6x + 5$

3. Find all the zeros for $x^4 + 4x^3 - 8x - 32$

4. Find the polynomial with roots of -3 (*mult. of 2*), and $\sqrt{3}$

5. Find the polynomial with roots of $(2 - i)$, and 4

6. Find the polynomial with roots of $3 - 2i$, and $2 + 3\sqrt{2}$